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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/978,585	10/16/2001	Avi J. Ashkenazi	P2630P1C15	5223
9157	7590 03/05/2004		EXAM	INER
GENENTEO	•		SPECTOR, I	ORRAINE
	FRANCISCO, CA 94080		ART UNIT	PAPER NUMBER
			1647	
			DATE MAILED: 03/05/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.



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09/978,585	10/16/2001	Avi J. Ashkenazi	PZ630P1C15	5223
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		Applicati	on No.	Applicant(s)	
		09/978,5	85	ASHKENAZI ET A	L.
Offi	ice Action Summary	Examine		Art Unit	
			Spector, Ph.D.	1647	
The M. Period for Reply	AILING DATE of this commu	nication appears on th	e cover sheet with the e	correspondence ad	dress
	ED STATUTORY PERIOD	FOR REPLY IS SET 1	O EXPIRE 3 MONTH	(S) FROM	
THE MAILING - Extensions of tin after SIX (6) MO - If the period for I - If NO period for I - Feiture to reply w - Any reply receive	ODATE OF THIS COMMUN ne may be available under the provision NTHS from the mailing date of this con reply specified above is less than thirty reply is specified above, the maximum in within the set or extended period for rep ed by the Office later than three months rm adjustment. See 37 CFR 1.704(b).	NICATION. as of 37 CFR 1.136(a). In no extending the state of 37 CFR 1.136(a). In no extending the state of 37 CFR and will apply and will by statute, cause the apply will. By statute, cause the apply and will state of 37 CFR and 38 CFR and 38 CFR and 39 CFR and	ent, however, may a reply be fin lutory minimum of thirty (30) day till expire SIX (6) MONTHS from alication to become ABANDONE	mely filed ys will be considered timel the mailing date of this c ED (35 U.S.C. § 133).	y. ommunication.
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1) Respon	sive to communication(s) fi	led on			
2a)∏ This ac	tion is FINAL.	2b)⊠ This action is n	on-final.		
	his application is in condition in accordance with the prac				e merits is
Disposition of C	laims	•			
4)⊠ Claim(s	s) <u>58-63</u> is/are pending in th	e application.	•		
•	he above claim(s) is/	are withdrawn from co	nsideration.		
5) Claim(s	s) is/are allowed.				
	s) <u>58-63</u> is/are rejected.				
· — ·	s) is/are objected to.				
8) Claim(s	s) are subject to restr	iction and/or election i	requirement.		
Application Pape	ers				
•	cification is objected to by t	•	_		
	wing(s) filed on is/ard		-		
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	ment drawing sheet(s) includir		-	•	` `
•	h or declaration is objected	to by the Examiner. IN	ote the attached Office	Action or form P	10-152.
-	5 U.S.C. §§ 119 and 120				
	vledgment is made of a claii) Some * c) None of:		nder 35 U.S.C. § 119(a	a)-(d) or (t).	
	Certified copies of the priorit		en received.		
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	Copies of the certified copies application from the Internation			ed in this National	Stage
* See the a	attached detailed Office acti	on for a list of the cert	ified copies not receive		
since a sp 37 CFR 1		ed in the first sentence	e of the specification o	r in an Application	
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	edgment is made of a claim was included in the first se				
Attachment(s)					
1) Notice of Refer	ences Cited (PTO-892)		4) Interview Summary	(PTO-413) Paper No(s)
	sperson's Patent Drawing Review adosure Statement(s) (PTO-1449)			Patent Application (PT)	

Application/Control Number: 09/978,585

Art Unit: 1647

Part III: Detailed Office Action

Claims 58-63 are pending and under consideration.

The claims are drawn to anti-PRO526 polypeptide antibodies, SEQ ID NO: 400.

Formal Matters:

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The disclosure is objected to because of the following informalities:

Applicants are advised that the ATCC has moved from Rockville, MD to Manassas, VA, effective March 23, 1998. The correct address is now:

American Type Culture Collection 10801 University Boulevard Manassas, VA 20110-2209

Appropriate correction is required.

IDS:

The information disclosure statement, filed 5/6/2002, has been considered. The BLAST results demonstrate that applicants are aware of nucleic acids with identity/homology to the one claimed herein. However, as the BLAST results do not give sufficient identifying information, the Examiner cannot determine if said sequences constitute prior art.

Priority Determination:

The utility for the claimed nucleic acids is based upon Example 126, at page 351, in which it is shown that the polypeptide encoded by the protein is active in a chondrocyte redifferentiation assay. The earliest disclosure of this result that can be confirmed by the Examiner is in US Application 09/918585, filed 7/30/01. It is suspected that priority may exist in PCT/US99/28313 or PCT/US00/04341. Applicants are requested to provide a copy of that portion of each application which contains the chondrocyte redifferentiation assay in response to this office action to allow a proper priority determination. Accordingly, priority is set at 7/30/01, with possible priority to 11/30/99 or 2/18/00, pending review of the PCT applications.

Should the applicant disagree with the examiner's factual determination above, it is incumbent upon the applicant to provide the serial number and specific page number(s) of any parent application filed prior to the date recited above which specifically supports the particular claim limitation for each and every claim limitation in all the pending claims which applicant considers to have been in possession of and fully enabled for prior to that date.

Objections and Rejections under 35 U.S.C. §112:

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 58-63 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 58 states that the claimed antibody "binds" the protein of SEQ ID NO: 12, whereas dependent claim 63 states that the antibody "specifically binds". The term "specifically" in claim 63 is a relative term that renders the claim indefinite. The term "specifically" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Further, the use of the term in the dependent claim raises the issue that the antibodies of the other claims may *not* be specific to the protein, in which case the metes and bounds of the claims are in question.

Claim 61 is further indefinite as an antibody cannot be a fragment of itself.

The remaining claims are rejected for depending from an indefinite claim.

Rejections Over Prior Art:

Priority is set at 7/30/01, but may be granted to 11/30/99 or 2/18/00. Accordingly, the rejections below are being set forth with each possible priority date in mind.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 58-63 are rejected under 35 U.S.C. 102(e) as being anticipated by Ruben et al., U.S. Patent Number 6,475,753.

Ruben et al. disclose and claim a protein, SEQ ID NO: 161, that is 99.7% identical to residues 1-361 of SEQ ID NO: 400 of the instant application, having a sole mismatch at residue 135. Antibodies to the protein are also disclosed, see abstract, for example.

At paragraph 797 of the Brief Summary of the Invention, Ruben et al. state:

Further polypeptides of the invention relate to antibodies and T-cell antigen receptors (TCR) which immunospecifically bind a polypeptide, polypeptide fragment, or variant of SEQ ID NO:Y, and/or an epitope, of the present invention (as determined by in assaying specific immunoassays well known the art for antibody-antigen binding). Antibodies of the invention include, but are not limited to, polyclonal, monoclonal, multispecific, human, humanized chimeric ' antibodies, single or. chain

antibodies, Fab fragments, F(ab') fragments, fragments produced by a Fab expression library, anti-idiotypic (anti-Id) antibodies (including, e.g., anti-Id antibodies to antibodies of the invention), and epitope-binding fragments of any of the above.

At paragraph 784 of the Brief Summary of the Invention, Ruben et al. disclose labelled antibodies. Thus, the antibodies disclosed by Ruben et al. anticipate the claimed invention.

Claims 58-59 and 61-63 are rejected under 35 U.S.C. 102(e) as being anticipated by Lalgudi et al., U.S. Patent Number 6,476,212. Lalgudi et al. disclose a number of polynucleotides and polypeptides derived from corn ear. SEQ ID NO: 6510 of Lalgudi et al. is 88.7% identical over its entire length (309 nucleotides) to nucleotides 1854-2161 of SEQ ID NO: 399 of the instant application. Vectors, host cells, expression of protein, and production of antibodies are discussed at columns 32-35, for example, and include polyclonal, monoclonal, chimeric, single chain, fragments (col. 34, lines 7-12), labelled antibodies (col. 35 lines 34-36). Thus, the claimed invention is anticipated by Lalgudi et al.

Claims 58-63 are rejected under 35 U.S.C. 102(e) as being anticipated by Strittmatter, WO 01/51520. This disclosure merits priority to the filing date of US Provisional Application 60/207366, filed 5/26/2000.

Strittmatter discloses a protein designated NOGO receptor, having SEQ ID NO: 2, encoded by SEQ ID NO: 1. Strittmatter's SEQ ID NO: 2 is 100% identical to SEQ ID NO: 400. Strittmatter's SEQ ID NO: 1 is 100% identical to the entirety of the coding region of SEQ ID NO: 399. Claims are drawn to nucleic acids, vectors, host cells, protein, chimeric proteins, antibodies (monoclonal, polyclonal, humanized) etc. Antibody fragments are disclosed at page 7. Humanized antibodies are disclosed at page 33-34. Labelled antibodies are disclosed at page 35. Thus, the invention is anticipated by Strittmatter et al.

Claims 58-63 are rejected under 35 U.S.C. 102(e) as being anticipated by Fraser et al., WO 01/09162. This disclosure merits priority to the filing date of US Application 09/365164, filed 7/30/1999.

Fraser discloses a nucleic acid, having SEQ ID NO: 73, which they designate human TANGO 393 (page 73). Fraser's SEQ ID NO: 73 is 99.9% identical to SEQ ID NO: 399, nucleotides 475-2236, which comprises the entire coding sequence, and in fact is 100% identical to the entirety of the coding region of SEQ ID NO: 399. Claims are drawn to nucleic acids, vectors, host cells, protein, chimeric proteins including Ig fusion proteins (see page 113), antibodies (including monoclonal) etc. Polyclonal and monoclonal antibodies and antibody fragments are also disclosed at page 117, chimeric and humanized antibodies at page 119, and labelled antibodies at page 120. Thus, the invention is anticipated by Fraser et al.

Conclusion:

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Lorraine M. Spector, whose telephone number is (703) 308-1793. Dr. Spector can normally be reached Monday through Friday, 9:00 A.M. to 5:30 P.M. Effective 1/21/2004, Dr. Spector's telephone number will be 571-272-0893.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Gary L. Kunz, at (703)308-4623. Effective 1/21/2004, Dr. Kunz' telephone number will be 571-272-0887.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist at telephone number (703) 308-0196.

Certain papers related to this application may be submitted to Group 1800 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Official papers filed by fax should be directed to (703) 872-9306 (before final rejection) or (703)872-9307 (after final). Faxed draft or informal communications with the examiner should be directed to (703) 746-5228. Effective 1/21/2004, Dr. Spector's fax number will be 571-273-0893.

Lorraine Spector, Ph.D. Primary Examiner

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EXAMINER INITIAL	1	OTHER DOCUMENTS	(INCLUDING AUTHOR, TITLE, DAT	E, PERTINENT PAGES, ETC.)		
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07	2	lozzo, R. V., Crit. Rev. Biochem. Mol.	<u>Biol.</u> , 32(2):141-174 (199	7)		
	3.	De La Salle, C., et al., Vouv. Rev. Fr.	Hematol. (Germany), 37(4)	:215-222 (1995)		
	4. •	Bernard-Soulier syndrome, Chlemetson,	K. J., Thromb. Haemost.	(Germany), 74(1):111-116 (July 199	5)	
	5.	Ruoslahti, E. I., et al., WO9110727-A	_			
	6.	Leong and Baxter, Mol. Endocrinol., 6	(6):870-876 (1992)			
	7.	Baxter, J. Biol. Chem., 264(20):11843-	11848 (1989)			
	8.	Khosravi, et al., J. Clin. Endocrinol. M.	<u>etab., 82(12):3944-3951 (1</u>	997)		
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	10.	Suzuki, et al., J. Biol. Chem. (U.S.), 27	71(37):22522 (1996) • .			
	11.	Tayar, N., et al., Mol. Cell Endocrinol.	, (Ireland), 125(1-2):65-70	(Dec. 1996)		
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	13.	Harris, P. C., et al., J. Am. Soc. Nephr	<u>rol., 6(4):1125-1133 (Oct. 1</u>	995)		
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EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Notice of References Cited Application/Control No. 09/978,585 Applicant(s)/Patent Under Reexamination ASHKENAZI ET AL. Examiner Lorraine Spector, Ph.D. Application/Control No. Application/Spector Under Reexamination ASHKENAZI ET AL. Page 1 of 1

U.S. PATENT DOCUMENTS

*	Country Code-Number-Kind Code		Date MM-YYYY	Name	Classification
			11-2002	Ruben et al.	435/69.1
Г	В	US-6,476,212	11-2002	Lalgudi et al.	536/23.6
	С	US-			
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	WO 200151520 A2	07-2001	World Intellect	STRITTMATER et al.	A01K 67/027
	0	WO 200109162 A2	02-2001	World Intellect	BARNES et al.	C07H 21/04
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20040115

Q.E.		SHEET 1 OF 1
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY, DOCKET NO. GNE 2830P1C15	APPLICATION NO. 09/878,585
BY APPLICANT	APPLICANT Ashkenazi et al.	
(USE SEVERAL SHEETS IF NECESSARY)	FILING DATE October 16, 2001	GROUP Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)			
J	1.	Blast Results A1-A24 (Alignment of DNA44184 and various nucleotide sequences - GenBank Database), October 4, 2001		
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J. Spector 1/15/04